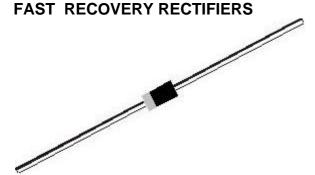






FR101 - FR107

DO-41P Axial Lead Plastic Package



Fast Switching for High Efficiency

Absolute Maximum Ratings (Ratings at $T_a = 25^{\circ}$ C ambient temperature unless specified otherwise. Single phase ,half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

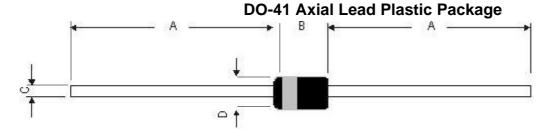
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DESCRIPTION	SYMBOL	FR 101	FR 102	FR 103	FR 104	FR 105	FR 106	FR 107	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified current 0.375 " (9.5mm) lead length @ T _a =55°C	I _(AV)				1.0				А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}				30				А
Maximum Forward Voltage at 1A DC	V_{F}				1.3				V
Maximum Reverse Current @ T _a = 25°C	1				5.0				μА
at Rated DC Blocking Voltage T _a =100°C	I _R				500				μΑ
Typical Junction Capacitance (Note 1)	CJ				12				pF
Typical Thermal Resistance from Junction to Ambient in free air (Note2)	R _{th (j-a)}				41				°C/W
Maximum Reverse Recovery Time (Note 3)	t _{rr}	_	1	50	_	250	•	500	ns
Operating and Storage Temperature Range	T_J,T_stg			- 5	55 to +1	50			°С

NOTES:

- 1. Measured at 1MHz and Applied Reverse Voltage of 4.0 VDC
- 2. Thermal Resistance Junction to Ambient and form Junction to Lead at "0.375" (9.5mm) Lead Length P.C.B Mounted
- 3. Reverse Recovery Test Conditions : I_F = 0.5A, I_R = 1A, I_{RR} =0.25A

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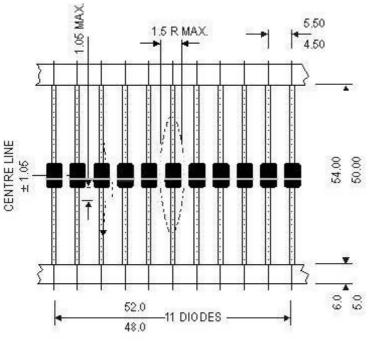
DO-41P Axial Lead Plastic Package



DIM	MIN	MAX		
Α	27.90	100-100		
В	4.05	5.20		
С	0.75	0.87		
D	2.30	2.70		

NOTE: Cathode is marked by Band.

DO-41, 52mm Taping Specification



All dimensions are in mm.

52 mm Taping Specification

- T & A indicates Axial Tape and Ammo Packing (52 mm Tape Spacing).
- 2. 300 mm (min) leader tape on every tape.
- No. of empty places allowed 0.25% without consecutive empty places.
- Ends of leads shall preferably not protrude beyond the tapes.
- Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

Packing in Ammo Pack: 5000 pcs./Ammo Pack

Customer Notes FR101 - FR107

DO-41P Axial Lead Plastic Package

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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